

LEDPAR64PRO

USER MANUAL



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Part I General Information

1.1 Introduction

You have purchased the LEDPAR64PRO, High Power LED Par Lamp series product. To assure reliable performance, please read the instructions in this manual thoroughly and carefully before operating.

1.2 Safety Information

The following definitions of identifying the severity of the hazards associated with the products are used:

“DANGER” Imminently hazardous situation which, if not avoided, will cause death or serious injury.

“WARNING” Potentially hazardous situation which, if not avoided, could cause death or serious injury.

“CAUTION” Potentially hazardous situation which, if not avoided, may cause minor or moderate injury or property damage. In addition, it uses to alert against unsafe practice.



Ignoring a Hazard will make void any Warranty

Danger: Ensure that main power supply is off before installing, wiring, or servicing this product.

Danger: This Product must be installed by a qualified electrician in accordance with NEC and relevant local codes.

Warning: Do not attempt to install or use this product until you read and understand the installation instructions and safety labels.

Warning: Do not use this product if the power cables are damaged.

Warning: Whenever indicated by a Structural Engineer and/or local codes, install safety cables to this product.

Warning: Ensure that the Safety Cables comply with the specifications given in this user manual.

Caution: This product has no serviceable parts inside. Do not attempt to open the fixture.

Note: The instructions and precautions in this user manual are or maybe not necessarily applicable, or relevant to all applications. Neo-Neon cannot anticipate all possible applications or use of this product.

Owner/User Responsibilities

The contractor, installer, purchaser, owner, and user is solely responsible to install, maintain and operate this product in such a way as to comply with all state and local laws, ordinances, regulations.

PART I General Information (continued)

1.3 Unpacking

The LEDPAR64PRO has been thoroughly tested and shipped in perfect operating condition. Check the shipping carton carefully for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for damage and be sure all accessories necessary to operate the fixture have arrived intact. In case damage has been found or parts are missing, please contact sales person for further instructions.

Included Items

- 1 Ea. LEDPAR64PRO
- 1 Ea. User Manual

1.4 Specifications:

- Qty of LEDs: 36 PCS (R=1W*12PCS,G=1W*12PCS,B=1W*12PCS)
- Power Supply: AC120V 60Hz or AC 220V 50Hz
- Power Consumption: 45W
- Dimension (mm): L260×W260××H260

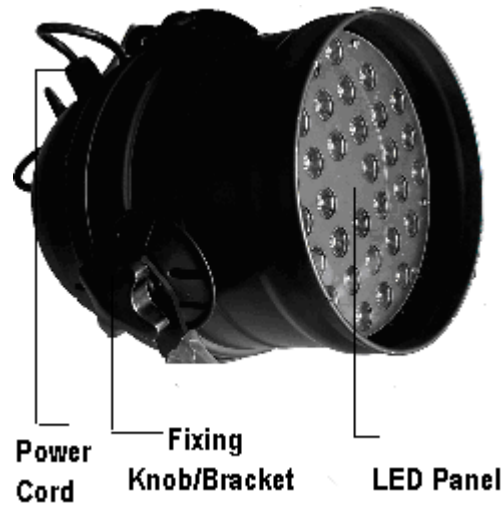
Note: Power configuration may differ by regions. Please be sure the outlet in your area is suitable for the fixture.

1.5 Features:

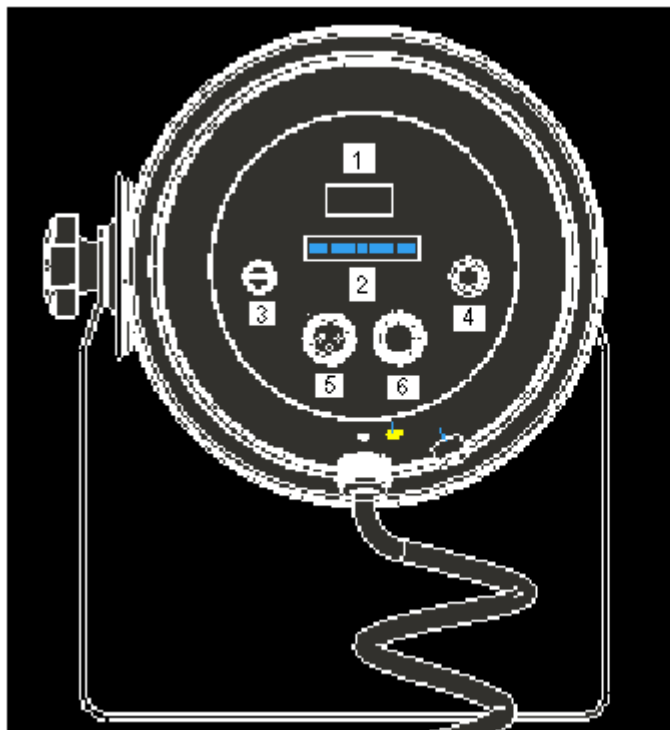
- Low power consumption
- Maintenance free operation
- 100,000 hours rated LED lifespan
- 36 PCS of high bright LED generates 16.7 million additive RGB colors
- DMX, Auto, Sound Active, Master/Slave, stand-alone
- 8 auto programs accessed via DMX-controller or stand-alone
- Sound-activated via built-in microphone of adjustable sensitivity
- Brilliant light output

Part II Installation and Operation

2.1 Fixture Layout



Operating Panel



- 1 LED Digital Display
- 2 Dipswitches
- 3 Sensitivity Knob/VR
- 4 Microphone
- 5 DMX IN
- 6 DMX OUT

PART II Installation and Operation (continued)

2.2 AC Power

The fixture's mains lead may require a grounding-type plug connector that fits your power distribution cable or outlet. Consult a qualified electrician if you have any doubts about proper installation.



WARNING: *For protection from dangerous electric shock, the fixture must be grounded (earthed). The AC mains power supply should have overload and ground-fault protection.*

CAUTION: *Verify that the feed cables are undamaged and rated for the current requirements of all connected devices before use.*

Following the plug connector's manufacturer's instructions, connect the yellow and green wire to ground (earth), the brown wire to live, and the blue wire to neutral. The table below details one type of connection scheme and may not be applicable to your standard. Consult a trained electrician if you have questions.

Wire	Pin	Marking	Screw color
Brown	Live	"L"	Yellow or brass
Blue	Neutral	"N"	Silver
Yellow or green	Ground	≡	Green

2.3 Understanding DMX**A. About DMX**

DMX is the abbreviation of Digital Multiplex. It's universal protocol lighting and controller manufactures as a communication between fixtures and controllers. A DMX controller sends out DMX instructions that travel through the DMX chain as a serial data to the fixtures via XLR cables.

DMX is a "common language" allowing all modules of different manufactures to be linked together and operate from a single controller, as long as all modules and the controller are DMX compatible.

B. DMX Cable Requirements:

Your fixture, LEDPAR64PRO uses 3-pin XLR cable as its connection media.

C. Connection of DMX

Connect DMX XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the fixture (please refer to the figure below). You must chain multiple fixtures together through serial linking, never split your DMX connections unless you are using our splitter/signal amplifier such as SRL-144.

PART II Installation and Operation (continued)

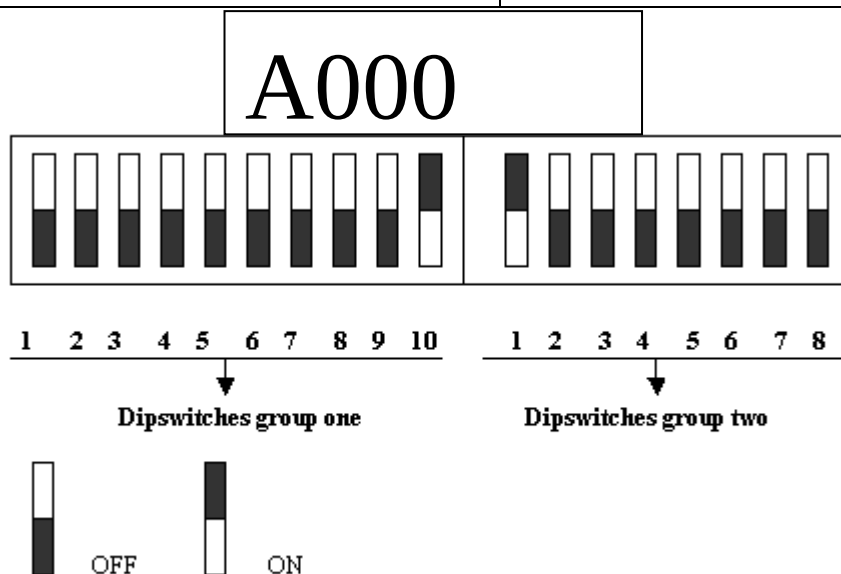
D. DMX addressing

All fixtures should be given a DMX starting address when using a DMX controller, so the correct fixture responds to the correct control signal. This digital starting address is the channel number from which the fixture starts to "listen" to the DMX control information sent out from the DMX controller. The allocation of this starting DMX address is achieved by combining various dipswitches. Please refer to **related sections** for further information.

2.4 Operation Instructions

The fixture employs two groups of dipswitches to access its functions. Normally the dipswitches from 1st to 9th are used for encoding DMX address. In addition, the unit features an easy-to-understand LED digital display to show what modes or status it is working in. For example, if the display shows: Axxx, it means that the machine is working in DMX mode. Following table detailed the information.

LED displays	Meaning
Axxx	DMX mode
Pxxx	Auto /Master
Px.x.x	Sound active/Master
Sxxx	Slave mode



- Dipswitch 1 address equals to 1
- Dipswitch 2 address equals to 2
- Dipswitch 3 address equals to 4
- Dipswitch 4 address equals to 8
- Dipswitch 5 address equals to 16
- Dipswitch 6 address equals to 32

PART II Installation and Operation (continued)

Dipswitch 7 address equals to 64

Dipswitch 8 address equals to 128

Dipswitch 9 address equals to 256

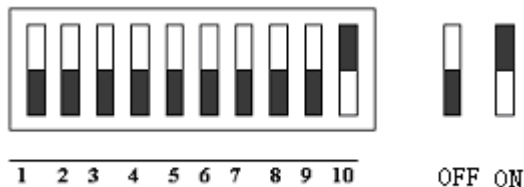
Functions and the Dip of the 2nd group:

Work Mode			Dip of the 2 nd group
			1 2 3 4 5 6 7 8
The Master Of Master/Slave	Auto Program	Auto Program 1	0 0 0 0 * * * 0
		Auto Program 2	0 1 0 0 * * * 0
		Auto Program 3	0 0 1 0 * * * 0
		Auto Program 4	0 1 1 0 * * * 0
		Auto Program 5	0 0 0 1 * * * 0
		Auto Program 6	0 1 0 1 * * * 0
		Auto Program 7	0 0 1 1 * * * 0
		Auto Program 8	0 1 1 1 * * * 0
	Sound Active	Sound Program 1	0 0 0 0 * * * 1
		Sound Program 2	0 1 0 0 * * * 1
		Sound Program 3	0 0 1 0 * * * 1
		Sound Program 4	0 1 1 0 * * * 1
		Sound Program 5	0 0 0 1 * * * 1
		Sound Program 6	0 1 0 1 * * * 1
		Sound Program 7	0 0 1 1 * * * 1
		Sound Program 8	0 1 1 1 * * * 1
DMX			1XX XXXX X
The Slave of Master/Slave			1 * * * * * *

PART II Installation and Operation (continued)

A. DMX mode:

To have the fixture working in DMX mode, please toggle on the dipswitch #10 of Group1 as illustrates in below figure:



1. DMX channels 1,2,3,5 functions are determined by the current settings of channel 4.

For example, while channel 4 is set between 0 and 28,

Channel 1 will control the Red LEDs,

Channel 2 will control the Green LEDs,

Channel 3 will control the Blue LEDs.

While channel 4 is set more than 28,

Channel 5 will control the speed of the Auto program.

2. Channel 6 is not determined by channel 4.

Channel	Value	Function	CH1	CH2	CH3	CH5
4	000~028	RGB Control Mode	Red 000→255	Green 000→255	Blue 000→255	No Function 000→255
	029~056	Program 1	No Function	No Function	No Function	Adjusts the auto program speed (the fastest 0.4s, the slowest 2.5s)
	057~084	Program 2				
	085~112	Program 3				
	113~140	Program 4				
	141~168	Program 5				
	169~196	Program 6				
	197~224	Program 7				
	225~255	Program 8				

CH6	0~10	No Strobe
	11~255	Higher the value quicker the Strobe rate

B. M/S mode

To work in M/S mode, you should designate one fixture as master mode and the rest as slave mode. By switching the dipswitch #1 of Group 2 off, you set this fixture to master mode. By switching the dipswitch #1 of Group 2 on, you set this fixture to slave mode as the way you set it to DMX mode.

PART II Installation and Operation (continued)

C. Select auto programs

To select auto programs, turn the dipswitch #1 of the 2nd group dipswitches off and dipswitch# 8 off. Auto programs are then selected by the various combining of dipswitches #2, #3 and #4 of group one dipswitches:

DIP2	DIP3	DIP4	Programs
OFF	OFF	OFF	Program 1, red fading
ON	OFF	OFF	Program 2, green fading
OFF	ON	OFF	Program 3, blue fading
ON	ON	OFF	Program 4, changing between red and green
OFF	OFF	ON	Program 5, changing between red and blue
ON	OFF	ON	Program 6, changing between green and blue
OFF	ON	ON	Program 7, fading among red, green and blue
ON	ON	ON	Program 8, changing among red, red and blue, blue

The parameter, fading is specified by the various combining of dipswitch #5, #6 and #7 of group two dipswitches:

DIP5	DIP6	DIP7	FADING
OFF	OFF	OFF	0%
ON	OFF	OFF	14.2%
OFF	ON	OFF	28.4%
ON	ON	OFF	42.6%
OFF	OFF	ON	56.8%
ON	OFF	ON	71%
OFF	ON	ON	85.2%
ON	ON	ON	100%

The running speed of auto programs is adjusted by turning the knob VR located at the front panel of the fixture.

D. Sound Active mode

Turn the dipswitch #1 off and #8 of group 2 dipswitches on, the fixture will be working in sound active mode with its sound sensitivity adjustable through knob VR.

The path of the program is the same as Auto Program Mode, except that it is triggered by sound.

Part III Maintenance and Cleaning

Please refer to the following points during the normal inspection:

Warning: Make certain all screws and fasteners are securely tightened at all times. Loosened screws may cause unexpected damage or injury.

Warning: Do not use this product if the power cables are damaged.

	CAUTION: Make sure that the power cord of the unit is disconnected from the mains before performing the following operation to avoid shock hazard!
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3.1 Cleaning

We recommend, if possible, frequent cleaning of the device, which will ensure its long lifespan and bright light output. While performing the cleaning, **please always make sure that the power cord is disconnected from the mains** and use a moist, lint-free cloth. Avoid using any alcohol or solvents, as they are harmful to the fixture.

3.2 Replace the fuse

Fuse Holder of the device holds a 1A/250V or 2A/125V fuse and is designed to protect the electronics in the event of severer power fluctuations. Never defeat this fuse. In case the fuse is failure, be sure to replace with an exact match one. To perform a replacement, please use a crosshead screwdriver to remove the fuse holder from its housing. Gently pull out the bad fuse and discard of it properly and replace with a rated one. In the end, reassemble it in reverse order.

PART III Maintenance and Cleaning (continued)

3.3 Troubleshooting

Trouble	Cause	Remedy
Fixtures do not responds.	No power supply	Check the mains power switch and the cables.
	Fuse burned	Disconnect the power and replace the fuse with the same specification. If the fuse is burned again, the problem should be cause by the circuit. Please consult the local service agency.
The reset is normal. But the fixtures do not responds or act abnormally via controller or Master/Slave.	data errors	Check the data bus. Ensure the signal input of the first fixture and the output of the controller to be connected.
	Wrong DMX address	Check and unify the address setting. (Note: when linked to the DMX controller, no fixtures are set as master.)
	The signal port of one lamp has failures.	Pull out the signal output and input of one fixture. Then connect both directly. If it works well, this fixture is proved to be the failed one. Handle the rest fixtures alike to check which fixture has problems. If any problem, please consult the local service agency.

DMX Address Quick Reference Chart

Dip Switch Position

DMX DIP SWITCH SET					#9	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1
0=OFF					#8	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1
1=ON					#7	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1
X=OFF or ON					#6	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0
#1	#2	#3		#4	#5															
0	0	0		0	0		32	64	96	128	160	192	224	256	288	320	352	384	416	448
1	0	0		0	0	1	33	65	97	129	161	193	225	257	289	321	353	385	417	449
0	1	0		0	0	2	34	66	98	130	162	194	226	258	290	322	354	386	418	450
1	1	0		0	0	3	35	67	99	131	163	195	227	259	291	323	355	387	419	451
0	0	1		0	0	4	36	68	100	132	164	196	228	260	292	324	356	388	420	452
1	0	1		0	0	5	37	69	101	133	165	197	229	261	293	325	357	389	421	453
0	1	1		0	0	6	38	70	102	134	166	198	230	262	294	326	358	390	422	454
1	1	1		0	0	7	39	71	103	135	167	199	231	263	295	327	359	391	423	455
0	0	0		1	0	8	40	72	104	136	168	200	232	264	296	328	360	392	424	456
1	0	0		1	0	9	41	73	105	137	169	201	233	265	297	329	361	393	425	457
0	1	0		1	0	10	42	74	106	138	170	202	234	266	298	330	362	394	426	458
1	1	0		1	0	11	43	75	107	139	171	203	235	267	299	331	363	395	427	459
0	0	1		1	0	12	44	76	108	140	172	204	236	268	300	332	364	396	428	460
1	0	1		1	0	13	45	77	109	141	173	205	237	269	301	333	365	397	429	461
0	1	1		1	0	14	46	78	110	142	174	206	238	270	302	334	366	398	430	462
1	1	1		1	0	15	47	79	111	143	175	207	239	271	303	335	367	399	431	463
0	0	0		0	1	16	48	80	112	144	176	208	240	272	304	336	368	400	432	464
1	0	0		0	1	17	49	81	113	145	177	209	241	273	305	337	369	401	433	465
0	1	0		0	1	18	50	82	114	146	178	210	242	274	306	338	370	402	434	466
1	1	0		0	1	19	51	83	115	147	179	211	243	275	307	339	371	403	435	467
0	0	1		0	1	20	52	84	116	148	180	212	244	276	308	340	372	404	436	468
1	0	1		0	1	21	53	85	117	149	181	213	245	277	309	341	373	405	437	469
0	1	1		0	1	22	54	86	118	150	182	214	246	278	310	342	374	406	438	470
1	1	1		0	1	23	55	87	119	151	183	215	247	279	311	343	375	407	439	471
0	0	0		1	1	24	56	88	120	152	184	216	248	280	312	344	376	408	440	472
1	0	0		1	1	25	57	89	121	153	185	217	249	281	313	345	377	409	441	473
0	1	0		1	1	26	58	90	122	154	186	218	250	282	314	346	378	410	442	474
1	1	0		1	1	27	59	91	123	155	187	219	251	283	315	347	379	411	443	475
0	0	1		1	1	28	60	92	124	156	188	220	252	284	316	348	380	412	444	476
1	0	1		1	1	29	61	93	125	157	189	221	253	285	317	349	381	413	445	477
0	1	1		1	1	30	62	94	126	158	190	222	254	286	318	350	382	414	446	478
1	1	1		1	1	31	63	95	127	159	191	223	255	287	319	351	383	415	447	479

Dip Switch Position

DMX Address